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SEO ID NO:4
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AAR55367

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AAR55367 standard; Protein; 509 AA.
XX
AC
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XX
DT
     20-JAN-1995
                 (first entry)
XX
DE
     Human Activin receptor-like kinase 2 (hALK-2).
XX
KW
     serine threonine kinases; activin receptors; Act-R; superfamily;
KW
     transforming growth factor; TGF; diagnostics; detection; therapy;
KW
     rheumatoid arthritis; glomerular nephritis; fibrosis.
XX
os
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XX
PN
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PS
     Claim 3; Page 40-43; 97pp; English.
SQ
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          Db
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          Db
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A45992
activin A receptor type I - human
N; Alternate names: activin A receptor type II-like kinase 2; ALK-2;
serine/threonine kinase-type receptor SKR1
C; Species: Homo sapiens (man)
C;Date: 03-May-1994 #sequence_revision 03-May-1994 #text_change 24-Sep-1999
C; Accession: A45992; I37162; S37182
R; Matsuzaki, K.; Xu, J.; Wang, F.; McKeehan, W.L.; Krummen, L.; Kan, M.
J. Biol. Chem. 268, 12719-12723, 1993
A; Title: A widely expressed transmembrane serine/threonine kinase that does
not bind activin, inhibin, transforming growth factor beta, or bone
morphogenic factor.
A; Reference number: A45992; MUID: 93286114; PMID: 8389764
A; Accession: A45992
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-509 <MAT>
A; Cross-references: GB:L02911; NID:g338218; PIDN:AAA36614.1; PID:g338219
R;ten Dijke, P.; Ichijo, H.; Franzen, P.; Schulz, P.; Saras, J.; Toyoshima,
H.; Heldin, C.H.; Miyazono, K.
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Oncogene 8, 2879-2887, 1993
A; Title: Activin receptor-like kinases: a novel subclass of cell-surface
receptors with predicted serine/threonine kinase activity.
A; Reference number: I37161; MUID: 93390967; PMID: 8397373
A; Accession: I37162
A; Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: mRNA
A; Residues: 1-509 < RES>
A; Cross-references: EMBL: Z22534; NID: g402184; PIDN: CAA80256.1; PID: g402185
C; Genetics:
A; Gene: GDB: ACVR1; ACVRLK2; SKR1; ALK2
A; Cross-references: GDB:216986; OMIM:601298
C; Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; protein
kinase homology
C; Keywords: ATP; serine/threonine-specific protein kinase; transmembrane
protein
F;206-502/Domain: protein kinase homology <KIN>
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Db
      61 QGKMTCKTPPSPGQAVECCQGDWCNRNITAQLPTKGKSFPGTQNFHLE 108
Qу
          Db
      76 QGKMTCKTPPSPGQAVECCQGDWCNRNITAQLPTKGKSFPGTQNFHLE 123
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AAR55368
ID
    AAR55368 standard; Protein; 532 AA.
XX
AC
    AAR55368;
XX
    20-JAN-1995 (first entry)
DT
XX
DE
    Human Activin receptor-like kinase 3 (hALK-3).
XX
OS
    Homo sapiens.
XX
PN
    WO9411502-A.
ХX
PS
    Claim 3; Page 45-48; 97pp; English.
XX
SQ
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 Query Match
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 Best Local Similarity
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 Matches 129; Conservative 0; Mismatches
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Qу
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Db
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ALK-3 - human
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C;Date: 12-Aug-1996 #sequence revision 12-Aug-1996 #text_change 24-Sep-1999
C; Accession: I37163; S37183
R; ten Dijke, P.; Ichijo, H.; Franzen, P.; Schulz, P.; Saras, J.; Toyoshima,
H.; Heldin, C.H.; Miyazono, K.
Oncogene 8, 2879-2887, 1993
A; Title: Activin receptor-like kinases: a novel subclass of cell-surface
receptors with predicted serine/threonine kinase activity.
A; Reference number: I37161; MUID: 93390967; PMID: 8397373
A; Accession: I37163
A; Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: mRNA
A; Residues: 1-532 < RES>
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C; Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; protein
kinase homology
C; Keywords: ATP
F;232-528/Domain: protein kinase homology <KIN>
F;240-248/Region: protein kinase ATP-binding motif
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 Best Local Similarity
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 Matches 129; Conservative
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                                               Indels
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Qу
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Db
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SEQ ID NO:8

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XX
 AC
     AAR55374;
XX
DT
     20-JAN-1995 (first entry)
XX
     Mouse Activin receptor-like kinase 6 (mALK-6).
DE
XX
KW
     serine threonine kinases; activin receptors; Act-R; superfamily;
KW
     transforming growth factor; TGF; diagnostics; detection; therapy;
KW
     rheumatoid arthritis; glomerular nephritis; fibrosis.
XX
OS
     Mus musculus.
XX
PN
     WO9411502-A.
XX
PD
     26-MAY-1994.
XX
PF
     17-NOV-1993;
                   93WO-GB02367.
XX
PR
     17-NOV-1992;
                   92GB-0024057.
PR
     08-MAR-1993;
                  93GB-0004677.
PR
     08-MAR-1993;
                   93GB-0004680.
PR
     28-MAY-1993;
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PR
     02-JUL-1993;
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PR
     15-OCT-1993;
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XX
PA
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XX
     Dijke P, Franzen P, Heldin C, Miyazono K, Yamashita H;
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XX
DR
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DR
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XX
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QУ
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Db
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         Db
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Sequence Companson F

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 C; Species: Mus musculus (house mouse)
 C;Date: 19-May-1994 #sequence revision 19-May-1994 #text change 24-Sep-1999
 C; Accession: A53444; S40159
(R;ten Dijke, P.; Yamashita, H.; Ichijo, H.; Franzen, P.; Laiho, M.; Miyazono,
 K.; Heldin, C.H.
Science 264, 101-104, 1994
 A; Title: Characterization of type I receptors for transforming growth factor-
 beta and activin.
 A; Reference number: A53444; MUID: 94188705; PMID: 8140412
 A; Accession: A53444
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-502 <TEN>
A; Cross-references: GB: Z23143; NID: q437870; PIDN: CAA80674.1; PID: q437871
R; Miyazono, K.; Moren, A.; Grimsby, S.; Ichijo, H.; Heldin, C.; ten Dijke, P.
submitted to the EMBL Data Library, June 1993
A; Description: ALK-3 and ALK-6: the closely related members in the
serine/threonine kinase receptor family.
A; Reference number: S40158
A; Accession: S40159
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-502 < MIY>
A; Cross-references: EMBL: Z23143; NID: g437870; PIDN: CAA80674.1; PID: g437871
C; Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; protein
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C; Keywords: ATP; serine/threonine-specific protein kinase; transmembrane
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F;210-218/Region: protein kinase ATP-binding motif
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          Db
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XX
os
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XX
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PN
XX
PD
    26-MAY-1994.
XX
PS
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XX
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     20-JAN-1995 (first entry)
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cDNA.
XX
os
     Synthetic.
XX
PN
     WO9411502-A.
XX
PD
     26-MAY-1994.
XX
PΙ
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XX
     WPI; 1994-183503/22.
DR
XX
XX
    Disclosure; Page 80; 97pp; English.
PS
XX
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1 GCGGATCCTGTTGTGAAGGNAATATGTG 28

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Qу

Db

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OS
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XX
PN
     WO9411502-A.
XX
PD
     26-MAY-1994.
XX
PΑ
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XX
PΙ
    Dijke P, Franzen P, Heldin C, Miyazono K, Yamashita H;
XX
DR
    WPI; 1994-183503/22.
XX
PS
    Disclosure; Page 80; 97pp; English.
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Sequence 24 BP; 6 A; 6 C; 5 G; 7 T; 0 other;

SEQ ID NO:15

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DT
     20-JAN-1995 (first entry)
XX
DE
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cDNA.
XX
os
     Synthetic.
XX
PN
     WO9411502-A.
XX
PD
     26-MAY-1994.
XX
PF
     17-NOV-1993;
                  93WO-GB02367.
     (LUDW-) LUDWIG INST CANCER RES.
PΑ
XX
ΡI
     Dijke P, Franzen P, Heldin C, Miyazono K, Yamashita H;
XX
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     WPI; 1994-183503/22.
XX
    Disclosure; Page 80; 97pp; English.
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SEQ ID NO:7

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DEFINITION
ACCESSION
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VERSION
             Z23143.1 GI:437870
KEYWORDS
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SOURCE
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  ORGANISM
            Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
                (bases 1 to 1944)
  AUTHORS
            ten Dijke, P., Yamashita, H., Ichijo, H., Franzen, P., Laiho, M.,
            Miyazono, K. and Heldin, C.H.
  TITLE
            Characterization of type I receptors for transforming growth
            factor-beta and activin
  JOURNAL
            Science 264 (5155), 101-104 (1994)
  MEDLINE
            94188705
   PUBMED
            8140412
REFERENCE
                (bases 1 to 1944)
  AUTHORS
            Miyazono, K.
  TITLE
            Direct Submission
  JOURNAL
            Submitted (25-JUN-1993) Kohei Miyazono, Ludwig Institute for
Cancer
            Research, Biomedical, Center, Uppsala, S-751 24, Sweden
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                                           449 t
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         316 AACAATATCTGCAGCACAGATGGGTACTGCTTCACGATGATAGAAGAAGATGACTCTGGA 375
Db
     121 ATGCCTGTTGTCACCTCTGGATGTCTAGGACTAGAAGGGTCAGATTTTCAATGTCGTGAC 180
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         376 ATGCCTGTTGTCACCTCTGGATGTCTAGGACTAGAAGGGTCAGATTTTCAATGTCGTGAC 435
Db
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Qу
         436 ACTCCCATTCCTCATCAAAGAAGATCAATTGAATGCTGCACAGAAAGGAATGAGTGTAAT 495
Db
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XX
DT
    20-JAN-1995 (first entry)
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XX
PN
    WO9411502-A.
XX
PD
    26-MAY-1994.
XX
PA
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XX
    Dijke P, Franzen P, Heldin C, Miyazono K, Yamashita H;
PΙ
XX
PS
    Claim 21; Page 75-77; 97pp; English.
XX
SQ
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100.0%; Pred. No. 2.7e-88;

Best Local Similarity

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	Qy	61	AACAAT	ATCTGCA	GCACAGAT	GGGTA	CTGCTTCACGAT	GATAGA	AGAAGATGA	CTCTGC	GA 120
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	Qy	121	ATGCCT	GTTGTCA	.CCTCTGGA	TGTCT	AGGACTAGAAGG	TCAGA	TTTTCAATG	rcgtg <i>f</i>	AC 180
	Db	376	ATGCCT	GTTGTCA	CCTCTGGA	TGTCT.		TCAGA	 TTTTCAATG	 CGTG <i>I</i>	AC 435
	Qy	181	ACTCCC	ATTCCTC	ATCAAAGA	AGATC	AATTGAATGCTG(CACAGA	AAGGAATGA(TGTA?	AT 240
	Db	436	ACTCCC	ATTCCTC	ATCAAAGA	AGATC.	AATTGAATGCTG	CACAGA	AAGGAATGA	FTGTA?	AT 495
	Qy	241	AAAGACO	CTCCACC	CCACTCTG	CCTCC	TCTCAAGGACAGA	GATTT	TGTTGATGG(3CCC 2	97
	Db	496	AAAGAC	TCCACC	CCACTCTG	cctcc	TCTCAAGGACAGA	GATTT	TGTTGATGGC	3CCC 5	552
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